

O R D I N A N C E

BE IT ORDAINED by the Marion County Council of Marion County, Indiana, that Marion County Council Ordinance No. 8-1957, adopted by the Marion County Council on March 28, 1957, and subsequently amended pursuant to Section 85 of Chapter 283 of the Acts of the Indiana General Assembly for 1955, as amended, and the Subdivision Control Ordinance of Marion County, Indiana, which was adopted as an amendment thereto by the Marion County Council on November 3, 1958, as amended, be amended in the following particulars:

That sections 4.02, 4.03, 4.04, 4.05, 4.06 and 4.07 respectively, of chapter 4 of said Subdivision Control Ordinance be amended to read as follows:

SECTION 4.02 MINIMUM STANDARDS FOR STREET DESIGN

1. Minimum Pavement Width

- a. In subdivisions designed for two and one-half ($2\frac{1}{2}$) dwelling units or less per acre of ground within the boundaries of the plat: the minimum width of local street pavement, including gutters and curbs, shall be twenty-six (26) feet measured back to back of curbs.
- b. In subdivisions designed for more than two and one-half ($2\frac{1}{2}$) dwelling units per acre of ground within the boundaries of the plat: gutters and curbs shall be constructed in accordance with the requirements of this ordinance, and the minimum width of local street pavement, including gutters and curbs, shall be thirty (30) feet measured back to back of curbs.

- c. The minimum width of marginal access street pavement, including gutters and curbs, shall be twenty-two (22) feet.

2. Maximum Grades

- a. The maximum grade of expressways and primary thoroughfares shall not exceed three (3) percent.
- b. The maximum grade of secondary thoroughfares, parkways and collector streets shall not exceed four (4) percent.
- c. The maximum grade for local streets, marginal access streets and cul-de-sacs shall not exceed seven (7) percent, except for portions of streets not to exceed six hundred (600) feet in length where maximum grade shall not exceed twelve (12) percent.

3. Minimum Grades

- a. The minimum grade of concrete streets and gutters shall be three-tenths (0.3) percent.
- b. The minimum grade for all other types of streets and gutters and for ditches shall be four-tenths (0.4) percent.

4. Street Alignment

- a. Profile grades for thoroughfares shall be connected by vertical curves of a minimum length equivalent to twenty (20) times the algebraic difference between the rates of grade, expressed in feet per hundred; profile grades for collector, local streets and cul-de-sacs, shall be fifteen times the algebraic difference.
- b. The minimum radii of center curvature for streets shall be:
 - 475 ft. or 12° on expressways and primary thoroughfares.
 - 300 ft. or 19° on secondary thoroughfares.
 - 125 ft. or 46° on parkways, collector streets, local streets, marginal access streets and cul-de-sacs.
 - 100 ft. or 58° on streets shorter than 500 feet.
- c. The minimum tangent between reversed curves shall be:
 - 200 ft. on expressways, primary and secondary thoroughfares.

100 ft. on parkways, collector streets, and as required by the Executive Director of the Metropolitan Planning Department on all other streets.

5. Visibility Requirements

- a. Minimum vertical visibility measured from four and one half ($4\frac{1}{2}$) feet (eye level) to eighteen (18) inches (tail light) height, within travelled lanes shall be:

500 ft. on expressways, primary and secondary thoroughfares.

300 ft. on parkways.

300 ft. on collector streets.

200 ft. on local streets, marginal access streets and cul-de-sacs.

100 ft. on streets shorter than 500 feet.

- b. Minimum horizontal visibility measured on center line shall be:

300 ft. on expressways, primary and secondary thoroughfares.

200 ft. on parkways and collector streets.

100 ft. on all other streets.

6. Intersections

- a. Street curbs shall be rounded by radii of sufficient length to permit smooth flow of traffic.
- b. Street intersections shall be as nearly at right angles as is possible, and no intersection shall be at an angle of less than sixty (60) degrees.
- c. Street jogs with centerline offsets of less than one hundred twenty-five (125) feet shall not be permitted.

7. Site Distances at Intersections

The following paragraph shall be required as a provision of the covenants of all Final Plats:

No fence, wall, hedge or shrub planting which obstructs sight lines at elevations between two (2) and six (6) feet above the street, shall be placed or permitted to remain on any corner lot within the triangular area formed by the street property lines and a line connecting points

twenty-five (25) feet from the intersection of said street lines, or in the case of a rounded property corner, from the intersection of the street lines extended. The same sightline limitations shall apply to any lot within ten (10) feet from the intersection of a street line with the edge of a driveway pavement or alley line. No tree shall be permitted to remain within such distances of such intersections unless the foliage line is maintained at sufficient height to prevent obstruction of such sight lines.

SECTION 4.03 MINIMUM STANDARDS FOR STREET CONSTRUCTION

1. General Requirements

- a. Minimum requirements for street construction shall be in accordance with "Standard Specifications" of the State Highway Commission of Indiana, 1963 edition or subsequent superseding edition, hereafter referred to as the "Standard Specifications," unless otherwise required by this ordinance. A copy of said Standard Specifications is on file in the office of the Metropolitan Planning Department.

2. Preparation of Subgrades For Rigid and Flexible Pavements

- a. The subgrade shall be prepared in compliance with section B-9 of the Standard Specifications or any subsequent amendments thereto.

3. Rigid Type Pavement (Plain Cement Concrete)

- a. Minimum design characteristics of street pavement shall be as follows:

<u>STREET DESIGNATION</u>				
	Freeway Expressway	Primary	Parkway Secondary Collector	Local and all Other Streets
<u>Controlled</u>				
<u>Wheel Load</u>	18,000 lbs.	11,000 lbs.	8,000 lbs.	6,000 lbs.
<u>Concrete</u>				
<u>Uniform Design</u>				
<u>Thickness</u>	10"	8"	7-1/2"	6"

- b. Subgrade shall be moist but not muddy at the time the concrete is placed. If required, it shall be saturated with water the previous night or not less than six hours prior to the concrete placement. If it subsequently becomes too dry just prior to placing concrete, it shall be sprinkled, but the method of sprinkling shall be such that mud or pools of water will not be formed. Plain cement concrete pavement shall be in accordance with Section D106.11 of the Standard Specifications, or any subsequent amendments thereto.
- c. Materials shall comply with Division III, Parts, G, H, J, and K of the Standard Specifications or any subsequent amendments thereto. Size No. 2 (U) coarse aggregate will not be required. Cement content shall be 5.5 bags per cubic yard of concrete mixture. Concrete shall be machine finished except on widened portions, intersections or other places where hand finishing will be permitted if authorized.
- d. Weakened plane or dummy transverse contraction joints shall be placed not to exceed twenty (20) foot spacing. Transverse contraction joints may be either formed or sawed dummy groove, ribbon or pre-molded strip type.

When transverse joints are to be formed by sawing, care must be taken to saw the grooves soon after placing the concrete to prevent the formation of cracks due to contraction of the slab. All transverse joints shall be sawed eight hours after the placing of the concrete unless authorization is given for sawing at a later time. One of the above named joints shall be placed at every catch basin and manhole in line of pavement. The location of manholes, etc. in the pavement shall determine the exact location of joints. All joints must extend throughout sidestrips to full width of pavement. Dowel bars will not be required except where shown on the plans. Transverse expansion joints, with approved dowel bar assembly, shall be placed at intersections and where shown on the plans. Whenever the width between forms of the pavement under construction is greater than thirteen (13) feet, longitudinal joints shall be constructed so as to divide the pavement into strips not to exceed thirteen (13) feet each. This may be accomplished by constructing a slot or groove as herein described for dummy contraction joints, or by a deformed metal key plate installed prior to the depositing of the concrete. Finishing machines or vibrating strikeboards of design other than as specified in the Standard Specifications will be permitted only if work of equal quality as set out in these specifications is obtained.

Curing with approved impervious membrane or sealing compounds will be permitted if authorized.

4. Flexible Type Pavement (Asphaltic Surface)

a. Minimum design characteristics shall be as follows:

	STREET DESIGNATION			
	Freeway Expressway	Primary	Parkway Secondary Collector	Local and all other streets
Controlled Wheel Load	18,000 lbs.	11,000 lbs.	8,000 lbs.	6,000 lbs.
Surface Course	2-1/4"	1"	1"	1"
Binder Course	3"	3"	2"	2"
Granular Base	12"	12"	12"	10"
Subbase	8-1/2"	6"	1"	1"

b. Subbase material shall meet the requirement for Granular Base below. Construction shall follow the procedure specified in Section C 11 of the Standard Specifications, or any subsequent amendments thereto. Special subbase drainage in areas of cuts and swales shall be as set out in the satisfactory plans and specifications.

c. Granular Base courses shall be of Waterbound Macadam Base materials and methods conforming to the requirements of Section C 2 of the Standard Specifications, or any subsequent amendments thereto.

d. Surface courses shall consist of a surface and a binder as set out below. Material and method shall conform to cited standards below.

Binder Course- material and methods shall conform to the requirements of section D 304.2 of the Standard Specifications, or any subsequent amendments thereto.

Surface Course-material and methods shall conform to the requirements of section D 304.3 (b) of the Standard Specifications, or any subsequent amendments thereto.

5. Gutters and Curbs

a. Gutters and curbs shall be required for all streets within the boundaries of the plat.

- b. Gutters and curbs may be of integral concrete curb or combined gutter and curb type and may be designed with either straight or rolled curb section. All gutters and curbs shall be constructed in conformance with sections F 1301, 1302, 1303, 1401, 1402 and 1403 of the Standard Specifications, or any subsequent amendments thereto. Curbs and gutters shall conform to the dimensions shown by Sketches Nos. 1, 2, 3, and 4, as hereinafter set forth, and construction plans required to be submitted by the applicant.

6. Shoulders, Side Slopes and Ditches

- a. All shoulders, side slopes and ditches shall be prepared in accordance with Section B-10 of the Standard Specifications or any subsequent amendments thereto, and construction plans required to be submitted by the applicant.
- b. Typical minimum dimensions are shown by Sketches Nos. 5 and 7, as hereinafter set forth.
- c. All shoulders, side slopes and ditches shall be protected from erosion by either sodding as set forth in section F-40 of the Standard Specifications, or any subsequent amendments thereto, or seeding as set forth in section F-41 of said standards, as shown on the erosion control plan, which plan shall be a part of the required construction plans to be submitted by the applicant.
- d. Sideslopes having a grade in excess of 2 to 1 shall be protected by hand-lain riprap in accordance with sections F302.3 and F303.3 of the Standard Specifications, or any subsequent amendments thereto, as required on the construction plans to be submitted by the applicant.
- e. Ditches having a grade of three, four or five percent shall have a gutter consisting of sod, or if in excess of five percent shall have a gutter consisting of concrete or stone as shown on the construction plans to be submitted by the applicant.

SECTION 4.04 MONUMENTS

- 1. Permanent monuments shall be installed at all quarter section points on the boundaries of or within the area proposed to be platted, at the intersections of all boundary lines of the proposed plat, at the beginning and end of all curves and points of tangency of the perimeter of said plat, at the intersections of all street center lines upon said plat, and at such other points as are necessary to definitely establish all major plat lines, except those describing individual lots.
- 2. All said monuments shall be constructed of concrete or metal, not

less than three (3) feet in length and either four (4) inches square or four (4) inches in diameter at the top, with appropriate cross mark or other designation thereon.

3. All said monuments shall be installed so that the top thereof is level with the proposed finished grade adjoining it, and the cross mark or other designation thereon shall coincide exactly with the intersecting or other lines so marked and designated.

SECTION 4.05 STREET SIGNS

1. At least one street sign shall be installed at each street intersection within or on the perimeter of said proposed plat, to be located on the N. E. corner thereof, whenever possible, and on the parkstrip, as hereinafter referred to in this ordinance, between the street and sidewalk at a point approximately six (6) inches from said sidewalk.
2. Street signs shall be of aluminum, six (6) inches by twenty-four (24) inches, shall be double faced with letters of scotchlite or the equivalent, four (4) inches in height, and shall be mounted upon a galvanized pipe post, ten (10) feet in length and two (2) inches inside diameter and approximately two and one half ($2\frac{1}{2}$) inches outside diameter, set in concrete to a depth of two and one half ($2\frac{1}{2}$) feet, as shown on Sketch No. 8 as hereinafter set forth.

SECTION 4.06 CULVERTS

1. Culverts shall be constructed and installed wherever necessary, to provide adequate drainage, in accordance with the satisfactory construction plans and specifications therefor submitted by the applicant.
2. The location and size of driveway culverts shall be determined at the time of the improvement location permit application. However, the minimum size of such culverts shall be no less than twelve (12) inches, but in no case less than that specified by the satisfactory construction plans and specifications therefor submitted by the applicant.

SECTION 4.07 SIDEWALKS

1. In subdivisions designed for more than one dwelling unit per acre of ground within the boundaries of the plat, sidewalks shall be constructed and installed along both sides of all streets, (except where traffic conditions are such as to eliminate or discourage through vehicular traffic and street parking, or where other exceptional conditions exist which eliminate the necessity for sidewalks), and labelled upon said proposed plat in accordance with the satisfactory construction plans and specifications therefor submitted by the

applicant and in accordance with the following specifications and requirements:

- a. Sidewalks shall be composed of Portland Cement Concrete, shall have a minimum width of four (4) feet, a minimum depth of four (4) inches and shall otherwise conform to Sections F 3301, F 3302 and F 3303 of the "Standard Specifications" of the State Highway Commission of Indiana, 1963, or any subsequent amendments thereto.
- b. The outside edge of sidewalks shall normally be placed one (1) foot from the right-of-way line, and the area between the sidewalk and curb or street pavement shall constitute a parkstrip.

BE IT FURTHER ORDAINED that an emergency exists for the passage of this ordinance and that the same shall be in full force and effect from and after this date.

B. H. Duncan
James E. Gresh
H. Norris Cottingham
Ronald E. Blyman
Harry E. Foxworthy
M. A. Brown
Edwin A. Koch
THE MARION COUNTY COUNCIL OF
MARION COUNTY, INDIANA

Dated: 10-6-64

Attest: John T. Sutton
Auditor of Marion County,
Indiana